B.B.M.P

BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: KODIGEHALLI

Name of Work: Estimate for Improvements to Roads, Drains and Construction of culverts in Ananda Badavane, Sir MV Layout and surrounding areas in Ward No.11, Byatarayanapura.

Estimated Cost Rs. 35.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK:- Improvements to Roads,Drains and Construction of culverts in Ananda Badavane, Sir MV Layout and surrounding areas in Ward No.11, Byatarayanapura.

Estimation Cost.Rs 3500000.00

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
1	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. (PWD SR 2021-22 Vol -I Pg No 5 item no 1.4.1)	Cum							
	New Drain								
	Ananda Layout Main Road		2	120.00	1.00	1.00	240.00		
	Ananda Layout 5th Main		1	122.00	1.00	1.00	122.00		
	Culvert		2	6.00	1.50	1.20	21.60		
	Basic rate	186.00	✓						
	Area weightage 10%	18.60							
	Sub Total	204.60							
	Total						**383.60**	204.60	**78485.00**
2	Providing and laying in position Plain Cement Concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)	Cum							
	New Drain								
	Ananda Layout Main Road		2	120.00	1.00	0.15	36.00		
	Ananda Layout 5th Main		1	122.00	1.00	0.15	18.30		
	Culvert		2	6.00	1.50	0.15	2.70		
	Issued Rate 07-07-2022 Basic rate	5554.00	✓						
	Area weightage 10%	555.40							
	Sub Total	6109.40							
	Total						**57.00**	6109.40	**348236.00**

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately) (PWD SR 2021-22 Vol -I Pg 17 item no 2.4.2))	Cum							
	New Drain								
	Raft								
	Ananda Layout Main Road		2	120.00	0.90	0.15	32.40		
	Ananda Layout 5th Main		1	122.00	0.90	0.15	16.47		
	Side Wall								
	Ananda Layout Main Road		2x2	120.00	0.15	0.60	43.20		
	Ananda Layout 5th Main		2	122.00	0.15	0.60	21.96		
	Culvert								
	Raft		2	6.00	1.30	0.20	3.12		
	Side Wall		2x2	6.00	0.30	0.60	4.32		
	Issued Rate 07-07-2022 Basic rate	5968.00	✓						
	Add 5% for Shuttering	298.40							
		6266.40							
	Area weightage 10%	626.64							
	Sub Total	**6893.04**							
	Total						**121.47**	6893.04	**837298.00**
4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. MORTH Specification NO.1600&2200 (PWD SR 2021-22 Vol -III Pg 90 item no 12.1)								
	For Drain	Cum					114.03		
		kg	Steel assumed 60Kg/Cum of Concrete				0.06		
		tonne					**6.84**		
	For Culvert	Cum					7.44		
		kg	Steel assumed 80Kg/Cum of Concrete				0.08		
		tonne					**0.60**		
	Issued Rate 07-07-2022 Basic rate	92170.00	✓						
	Area weightage 10%	9217.00							
	Sub Total	**101387.00**							
	Total						**7.44**	101387.00	**754015.00**

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
5	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. Mix 1:2:4 (M15) (PWD SR 2021-22 Vol -I Pg 17 item no 2.4.1)	Cum							
	Ramp Culvert								
			2x2	6.00	1.00	0.15	3.60		
	Issued Rate 07-07-2022 Basic rate	5880.00	✓						
	Area weightage 10%	588.00							
	Sub Total	6468.00							
	Total						**3.60**	6468.00	**23285.00**
6	Providing and Fixing pre cast Covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting, including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, copmplete. (Data Rate)	Sqm							
	Covering Slab								
	Ananda Layout Main Road		2	120.00	0.90		216.00		
	Ananda Layout 5th Main		1	122.00	0.90		109.80		
	Data rate	2337.00							
	Total						**325.80**	2337.00	**761395.00**
7	Providing and Fixing pre cast Covering Slab 250mm thick made out of CC 1:2:4 and jelly 25mm Down size with steel reinforcement including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete. As per Engineer incharge	Sqm							
	For Culvert								
			2	6.00	1.20		14.40		
	Data rate	5418.00							
	Total						**14.40**	5418.00	**78019.00**
8	Loading and Unloading of Stone Boulder / Stone aggregates / Sand / Kankar / Moorum. (Tipper 14 m3) (PWD SR 2021-22 Vol-III Page No.3, Item No.1.1C)	Cum							
	Qty Vide 90% of Item No- (1)						364.42		

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
-	Tot[redacted]						**364.42**	81.40	**29664.00**
	Basic rate	74.00							
	Area Weightage 10%	7.40							
	Total	81.40							
9	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km (PWD SR 2021-22 Vol-III Page No.3, Item No.1.4B)	T.Km							
	Qty frm Item No - 8						364.42		
	Density of Sand/Debris i.e 1.28 Tonne/Cum			364.42	1.28		466.46		
	Cost of Haulage Excluding Loading and Unloading on Surface Road to a distance of 9.80 Kms			466.46	9.80		4571.28		
	Total						**4571.28**	12.00	**54855.00**
	Basic rate	12.00							
								Grand Total	**2965252.00**
								GST Charges (18% of Executed cost)	**533745.00**
								Miscellenious and rounding off	**1003.00**
								Total Amount	**3500000.00**

Rupees Thirty Five Lakh(s) Only

CERTIFICATE:

1) The work spot has been inspected and found to be necessary.
2) The work spot comes under B.B.M.P Limits.
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on C.S.R of PWD 2021-22, Issue rates and Data Rates.

Assistant Engineer
Ward No. 11, Byatarayanapura

Assistant Executive Engineer
Kodigehalli Sub Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Executive Engineer
Byatarayanapura Division

ಕಾರ್ಯ ಪಾಲಕ ಅಭಿಯಂತರರು,
ಬ್ಯಾಟರಾಯನಪುರ ವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಾ. ಬೆಂಗಳೂರು.

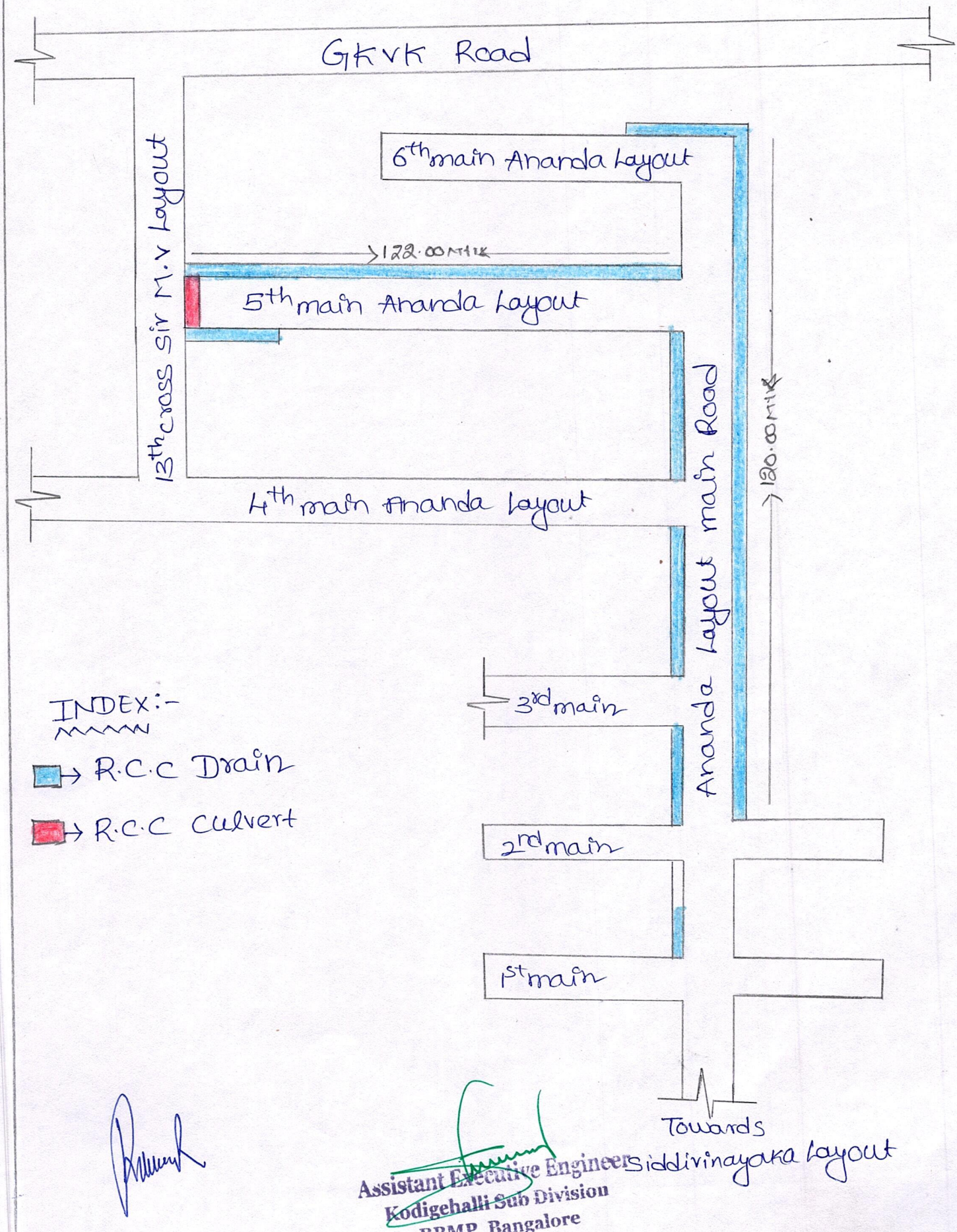
Administrative Approval
Accorded For 3500 Lakhs only
Head of A/C P3726
CER NO : 162 Dt: 16/09/22

TA

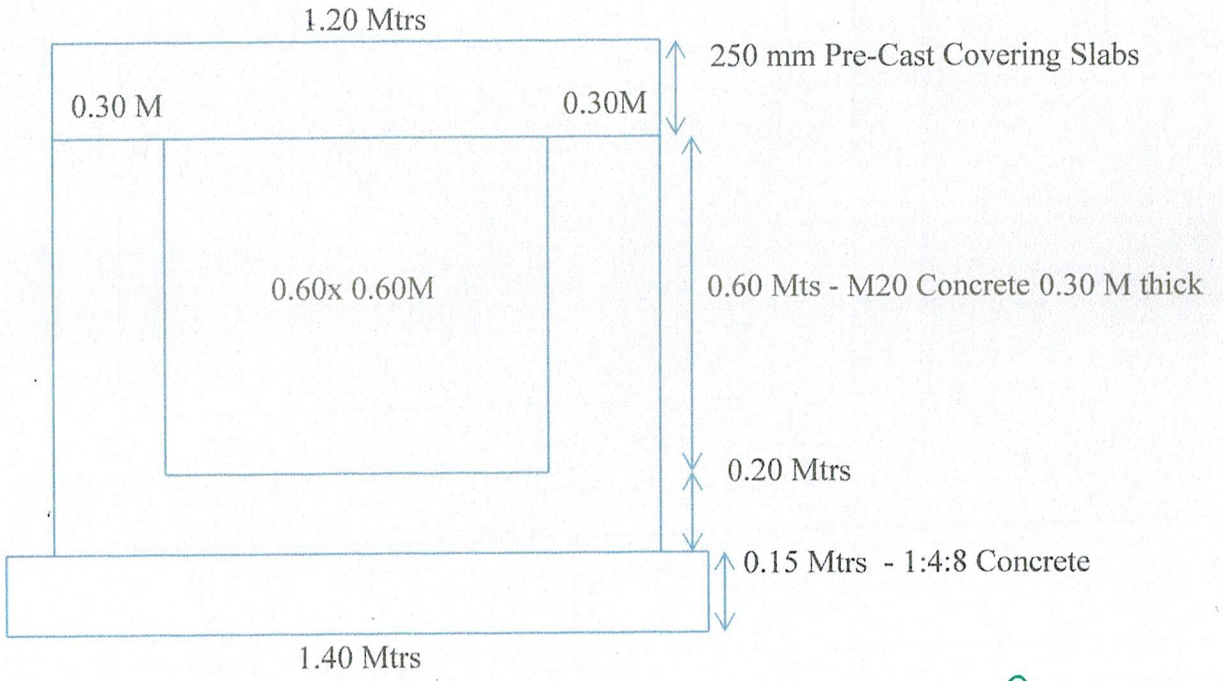
CE (YNK)

35.00 Lakhs only
Head of A/C P3726
CER NO : 162 Dt: 16/09/22

Name Of Work : Improvements to Roads, Drains and Construction of Culverts in Ananda Badavane, Sir MV Layout and Surrounding areas in Ward No.11 (Byatarayanapura).



Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

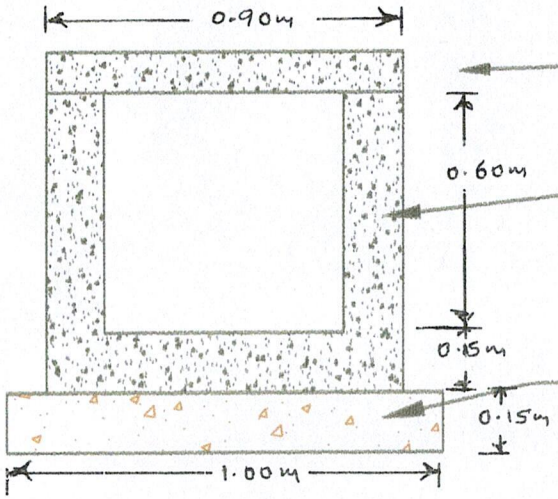


TIPICAL CROSS SECTION OF RCC CULVERT

Assistant Engineer

Assistant Executive Engineer
Kadigehalli Sub Division
BBMP, Bangalore

Assistant Executive Engineer



Precost slab Thick.

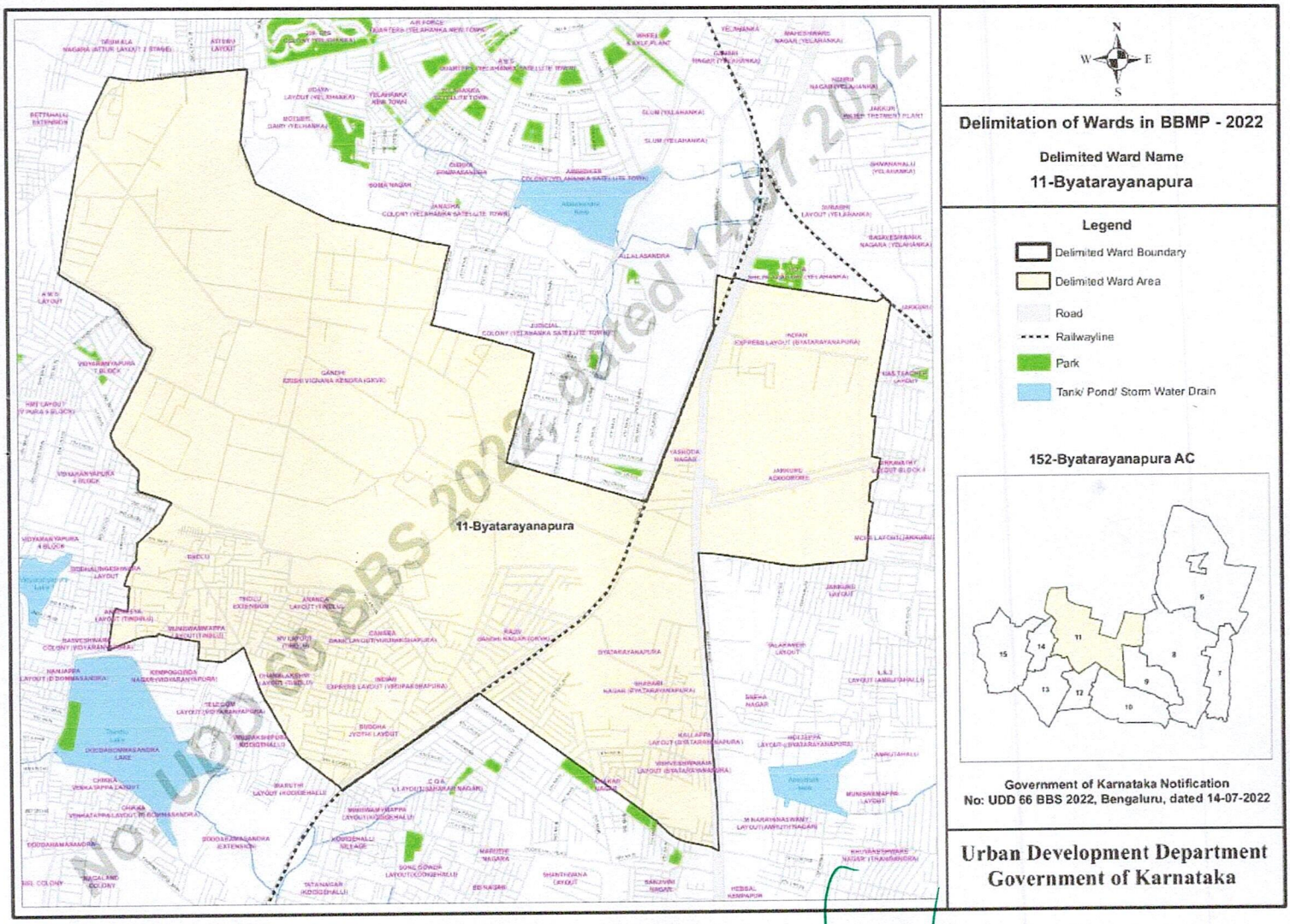
RCC WALL M-20 Thick 0.15.

PCC 1:4:8 Thick 0.15m.

CROSS SECTION OF CC DRAIN

Assistant Engineer

Assistant Executive Engineer
Kodichikkanahalli Division
BBMP, Bangalore



Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore